

Application No. 10/518151  
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### IN THE CLAIMS

#### Amendments To The Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### Listing of Claims:

1. (Currently Amended) A high toughness die-cast product, comprising an Al-Mg casting alloy having  $3.5 \text{ wt } \% \leq \text{Mg} \leq 4.5 \text{ wt } \%$ ,  $0.8 \text{ wt } \% \leq \text{Mn} \leq 1.5 \text{ wt } \%$ ,  $\text{Si} < 0.5 \text{ wt } \%$ ,  $\text{Fe} < 0.5 \text{ wt } \%$ , a sum  $(\text{Ti} + \text{Zr})$  of the amounts of Ti and Zr added of ~~equal to or~~ greater than  $[[0.3]]$  0.5 wt %, and a ratio  $(\text{Ti}/\text{Zr})$  of the amounts of Ti and Zr added of at least 0.3 but not more than 2, with the balance being Al.
2. (Original) The high toughness die-cast product according to claim 1, wherein a pouring temperature  $T$  is  $720^\circ\text{C} \leq T \leq 730^\circ\text{C}$ .
3. (Previously Presented) The high toughness die-cast product according to claim 1, wherein it is thin such that it has a minimum thickness  $t_1$  of  $1.2 \text{ mm} \leq t_1 \leq 3 \text{ mm}$ , and it is large such that a maximum flow distance  $d$  of a melt within a die cavity is 200 mm or greater.
4. (Cancelled)
5. (New) The high toughness die-cast product according to claim 1, comprising:  
a first chill layer;  
a second chill layer disposed on opposite side of the first chill layer;  
a minimum thickness  $t_1$  of  $1.2 \text{ mm} \leq t_1 \leq 3 \text{ mm}$ ;  
wherein a proportion  $P$  of the sum of thickness of the first chill layer  $t_3$  and thickness of the second chill layer  $t_4$  relative to the minimum thickness  $t_1$  is at 18% or greater.

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6. (New) A die-cast product, comprising an Al-Mg casting alloy having  $3.5 \text{ wt } \% \leq \text{Mg} \leq 4.5 \text{ wt } \%$ ,  $0.8 \text{ wt } \% \leq \text{Mn} \leq 1.5 \text{ wt } \%$ ,  $\text{Si} < 0.5 \text{ wt } \%$ ,  $\text{Fe} < 0.5 \text{ wt } \%$ ,  $\text{Ti} > 0.2 \text{ wt } \%$ , a sum  $(\text{Ti} + \text{Zr})$  of the amounts of Ti and Zr added of equal to or greater than 0.3 wt %, and a ratio  $(\text{Ti}/\text{Zr})$  of the amounts of Ti and Zr added of at least 0.3 but not more than 2, with the balance being Al.
7. (New) The die-cast product according to claim 6, comprising:  
a first chill layer;  
a second chill layer disposed on opposite side of the first chill layer;  
a minimum thickness  $t_1$  of  $1.2 \text{ mm} \leq t_1 \leq 3 \text{ mm}$ ;  
wherein a proportion P of the sum of thickness of the first chill layer  $t_3$  and thickness of the second chill layer  $t_4$  relative to the minimum thickness  $t_1$  is at 18% or greater.
8. (New) A die-cast product, comprising an Al-Mg casting alloy having  $3.5 \text{ wt } \% \leq \text{Mg} \leq 4.5 \text{ wt } \%$ ,  $0.8 \text{ wt } \% \leq \text{Mn} \leq 1.5 \text{ wt } \%$ ,  $\text{Si} < 0.5 \text{ wt } \%$ ,  $\text{Fe} < 0.5 \text{ wt } \%$ ,  $\text{Zr} > 0.3 \text{ wt } \%$ , a sum  $(\text{Ti} + \text{Zr})$  of the amounts of Ti and Zr added of greater than 0.3 wt %, and a ratio  $(\text{Ti}/\text{Zr})$  of the amounts of Ti and Zr added of at least 0.3 but not more than 2, with the balance being Al.
9. (New) The die-cast product according to claim 8, comprising:  
a first chill layer;  
a second chill layer disposed on opposite side of the first chill layer;  
a minimum thickness  $t_1$  of  $1.2 \text{ mm} \leq t_1 \leq 3 \text{ mm}$ ;  
wherein a proportion P of the sum of thickness of the first chill layer  $t_3$  and thickness of the second chill layer  $t_4$  relative to the minimum thickness  $t_1$  is at 18% or greater.